



EXPRESS MAIL NO. EV335392756US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Sudhakar Kasina, John M. Reno and Louis J. Theodore
Application No. : 10/820,653
Filed : April 08, 2004
For : RADIOLABELED ANNEXINS

Art Unit : 1616
Docket No. : 690022.525C9
Date : October 29, 2004

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, Applicants wish to make known to the Patent and Trademark Office the 185 references set forth on the attached Forms PTO-1449. This application is a continuation and relies, under 35 U.S.C. § 120 on the earlier filing date of prior U.S. Patent Application No. 10/455,935, filed June 06, 2003, and abandoned; which is a continuation of U.S. Patent Application No. 09/632,387, August 03, 2000, and abandoned; which is a continuation of U.S. Patent Application No. 09/291,823, filed April 14, 1999, which issued as U.S. Patent No. 6,171,577; which is a continuation application of U.S. Patent Application 08/690,184, filed July 26, 1996, which issued as U.S. Patent No. 5,968,477; which is a continuation-in-part of U.S. Patent Application No. 08/351,653, filed December 7, 1994, and abandoned; which is a continuation-in-part of U.S. Patent Application No. 08/261,064, filed June 16, 1994, and abandoned; which is a continuation-in-part of U.S. Patent Application No. 08/185,660, filed January 24, 1994, and abandoned.. The references

listed on the attached Forms PTO-1449 were submitted to and/or cited by the Office in these prior applications and, therefore, are not required to be provided in this application.

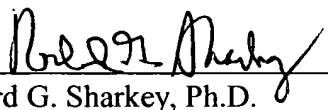
As to any reference made of record on the attached Forms PTO-1449, Applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with Applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, Applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Richard G. Sharkey, Ph.D.
Registration No. 32,629

RGS:ljt

Enclosures:

Form PTO-1449 (15 Sheets)

701 Fifth Avenue, Suite 6300
Seattle, Washington 98104-7092
Phone: (206) 622-4900
Fax: (206) 682-6031

\527753

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,195,073	03/25/80	Newman			
	AB	4,217,339	08/12/80	Bohn et al.			
	AC	4,223,002	09/16/80	Newman			
	AD	4,348,316	09/07/82	Bohn et al.			
	AE	4,410,688	10/18/83	Denkewalter et al.			
	AF	4,455,290	06/19/84	Olexa et al.			
	AG	4,468,345	08/28/84	Bohn et al.			
	AH	4,507,229	03/26/85	Bohn			
	AI	4,507,466	03/26/85	Tomalia et al.			
	AJ	4,518,584	05/21/85	Mark et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	AU-A-14027/88	09/29/88	AU		
	AL	CA 2,021,147	01/16/91	Canada		
	AM	CA 2,032,751	06/21/91	Canada		
	AN	CA 2,040,722 A1	10/19/91	Canada		
	AO	DE 38 10 331 A1	10/05/89	DE (+ Derwent Abstract Acc. No. 89/293724/198941)		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Alderson, "Scintigraphic Diagnosis of Pulmonary Embolism: Where Do We Go From Here?," <i>Radiology</i> 193: 22-23, 1994.
	AQ	Baldwin et al., "Purification and Partial Amino Acid Sequence of Annexin V from Porcine Gastric Mucosal Membranes," <i>Comp. Biochem. Physiol.</i> 100B(4): 661-665, 1991.
	AR	Barrett et al., "RP431 A Potential Thrombus Imaging Agent," <i>The Journal Of Nuclear Medicine</i> 36(5): p. 16P, Abstract No. 55, 1995.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV. 7-88)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	4,558,120	12/10/85	Tomalia et al.			
	BB	4,568,737	02/04/86	Tomalia et al.			
	BC	4,571,336	02/18/86	Houck et al.			
	BD	4,587,329	05/06/86	Tomalia et al.			
	BE	4,592,863	06/03/86	Bohn et al.			
	BF	4,594,328	06/10/86	Bohn			
	BG	4,673,562	06/16/87	Davison et al.			
	BH	4,732,891	03/22/88	Maki et al.			
	BI	4,736,018	04/05/88	Reutelingsperger			
	BJ	4,746,505	05/24/88	Jones et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	EP 055 028 A1	06/30/82	EPO		
	BL	EP 063 002 B1	10/20/82	EPO		
	BM	EP 213 175 B1	07/25/90	EPO		
	BN	EP 351 826 A2	01/24/90	EPO		
	BO	EP 432 988 A1	06/19/91	EPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BP	Bautovich et al., "Detection of Deep Venous Thrombi and Pulmonary Embolus with Technetium-99m-DD-3B6/22 Anti-fibrin Monoclonal Antibody Fab' Fragment," <i>The Journal of Nuclear Medicine</i> 35(2): 195-202, 1994.
	BQ	Biessen et al., "Synthesis of Cluster Galactosides with High Afinity for the Hepatic Asialoglycoprotein Receptor," <i>J. Med. Chem.</i> 38: 1538-1546, 1995.
	BR	Bryson et al., "Protecting Groups in the Preparation of Thiolate Complexes of Technetium," <i>Inorganic Chemistry</i> 29(16): 2948-2951, 1990.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	4,746,731	05/24/88	Bohn			
	CB	4,874,743	10/17/89	Wallner et al.			
	CC	4,879,224	11/07/89	Wallner et al.			
	CD	4,897,255	01/30/90	Fritzberg et al.			
	CE	4,937,324	06/26/90	Fujikawa et al.			
	CF	4,950,646	08/21/90	Wallner et al.			
	CG	4,959,314	09/25/90	Mark et al.			
	CH	4,965,392	10/23/90	Fritzberg et al.			
	CI	4,990,597	02/05/91	Löbermann et al.			
	CJ	5,026,913	06/25/91	McBride et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK	EP 668 353 A1	08/23/95	EPO		
	CL	EP 668 354 A1	08/23/95	EPO		
	CM	GB 1 555 197	11/07/79	GB		
	CN	GB 2 212 502 A	07/26/89	GB		
	CO	WO 86/04606	08/14/86	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CP	Butler et al., "Accurate Detection of Lower Limb Deep Venous Thrombosis Using a New Radiolabeled Thrombus Specific Agent," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 89P, Abstract No. 362, 1995.
	CQ	Cerqueira et al., "In Vivo Thrombus labeling with Annexin-V, A Human Protein with High Affinity for Activated Platelets," <i>The Journal Of Nuclear Medicine</i> 32(5):p.928, Abstract No. 82, 1991.
	CR	Cerqueira et al., "Noninvasive Arterial Thrombus Imaging with ^{99m} Tc Monoclonal Antifibrin Antibody," <i>Circulation</i> 85(1): 293-304, 1992.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,037,630	08/06/91	Fritzberg et al.			
	DB	5,055,561	10/08/91	Packard et al.			
	DC	5,071,636	12/10/91	Yamauchi et al.			
	DD	5,075,099	12/24/91	Srinivasan et al.			
	DE	5,080,884	01/14/92	McBride et al.			
	DF	5,081,019	01/14/92	Wallner et al.			
	DG	5,097,019	03/17/92	Löbermann et al.			
	DH	5,104,638	04/14/92	Nosco			
	DI	5,106,951	04/21/92	Morgan, Jr. et al.			
	DJ	5,112,954	05/12/92	Abrams et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DK	WO 86/06839	11/20/86	PCT		
	DL	WO 89/10140	11/02/89	PCT		
	DM	WO 91/07187	05/30/91	PCT (WPI Abstract. No. 91-149572 only)		
	DN	WO 91/09628	07/11/91	PCT		
	DO	WO 91/17168	11/14/91	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DP	Crumpton, "Protein Terminology Tangle," <i>Nature</i> 345: p. 212, 1990.
	DQ	De Bruyn et al., "Imaging of Thrombi in Pulmonary Arteries with Enzymatically Inactivated Radiolabeled Tissue-Type Plasminogen Activator," <i>Circulation</i> 90(4, Part 2):p. I-369, 1994.
	DR	De Bruyn et al., "Visualization of Thrombi in Pulmonary Arteries with Radiolabeled, Enzymatically Inactivated Tissue-Type Plasminogen Activator." 1995, vol. 92, No. 5, pp. 1320-1325.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	5,120,526	06/09/92	Fritzberg et al.			
	EB	5,162,505	11/10/92	Dean et al.			
	EC	5,164,176	11/17/92	Gustavson et al.			
	ED	5,179,081	01/12/93	Iwasaki et al.			
	EE	5,202,419	04/13/93	Grundmann et al.			
	EF	5,225,537	07/06/93	Foster			
	EG	5,242,679	09/07/93	Fritzberg et al.			
	EH	5,250,666	10/05/93	Gustavson et al.			
	EI	5,252,713	10/12/93	Morgan et al.			
	EJ	5,258,497	11/02/93	Reutelingsperger et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	EK	WO 92/19279	11/12/92	PCT		
	EL	WO 94/07537	04/14/94	PCT		
	EM	WO 94/09036	04/28/94	PCT		
	EN	WO 94/19024	09/01/94	PCT		
	EO	WO 94/22490	10/13/94	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	EP	Delpassand et al., "Synthesis Biodistribution and Estrogen Receptor Scintigraphy of In-111 DTPA Tamoxifen Analogue," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 161P, Abstract No. 732, 1995.
	EQ	Demange et al., "Annexin V: The Key to Understanding Ion Selectivity and Voltage Regulation?," <i>TIBS</i> 19: 272-276, 1994.
	ER	Dewhurst et al., "Noninvasive Imaging of Left Atrial Thrombi with Intravenous Administration of Radiolabeled Annexin V," <i>Journal of the American College of Cardiology</i> , vol. O, p. 424A, 1994.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	FA	5,279,811	01/18/94	Bergstein et al.			
	FB	5,288,623	02/22/94	Zenno et al.			
	FC	5,296,467	03/22/94	Reutelingsperger			
	FD	5,298,489	03/29/94	Wallner et al.			
	FE	5,314,992	05/24/94	Guyre et al.			
	FF	5,320,950	06/14/94	Grundman et al.			
	FG	5,330,738	07/19/94	Nosco			
	FH	5,332,678	06/21/94	Morgan, Jr. et al.			
	FI	5,371,184	12/06/94	Rajagopalan et al.			
	FJ	5,380,646	01/10/95	Knight et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FK	WO 95/34315	12/21/95	PCT		
	FL	WO 96/17613	06/13/96	PCT		
	FM	WO 96/17618	06/13/96	PCT		
	FN					
	FO					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	FP	Dewhurst et al., "Tc-99m annexin V uptake by left atrial and coronary thrombi," <i>Journal of Nuclear Medicine</i> 35(5): 254-255, 1994.
	FQ	Diggles et al., "Biodistribution and Dosimetry of Tc-99m P280: A Phase I Study," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 183P, Abstract No. 827, 1995
	FR	Fernandez et al., "The Structure of Anchorin CII, a Collagen Binding Protein Isolated from Chondrocyte Membrane," <i>J. Biolog. Chem.</i> 236(12): 5921-5925, 1988.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 690022.525C9	APPLICATION NO. 10/820,653
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Sudhakar Kasina et al.	
		FILING DATE April 8, 2004	GROUP ART UNIT 1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA	5,484,711	01/16/96	Wallner et al.			
	GB	5,589,395	12/31/96	Romisch et al.			
	GC	5,616,690	04/01/97	Axworthy et al.			
	GD	5,627,036	05/06/97	Reutelingsperger			
	GE	5,632,986	05/25/97	Tait et al.			
	GF	5,645,815	07/08/97	Dean et al.			
	GG	5,654,272	08/05/97	Dean			
	GH						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	GI					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	GK	Findeis, "Stepwise Synthesis of a GaINac-containing Cluster Glycoside Ligand of the Asialoglycoprotein Receptor," <i>Int. J. Peptide Protein Res.</i> 43: 477-485, 1994.
	GL	Flaherty et al., "Placental Anticoagulant Protein-I: Measurement in Extracellular Fluids and Cells of the Hemostatic System," <i>The Journal of Laboratory and Clinical Medicine</i> 115(2): 174-181, 1990.
	GM	Fraker et al., "Protein and Cell Membrane Iodinations with a Sparingly Soluble Chloroamide, 1, 3, 4, 6-tetrachloro-3a, 6a-diphenylglycoluril," <i>Biochemical and Biophysical Research Communications</i> 80(4): 849-857, 1978.
	GN	Fritzberg et al., "Specific and Stable Labeling of Antibodies with Technetium-99m with a Diamide Dithiolate Chelating Agent," <i>Proc. Natl. Acad. Sci. USA</i> 85: 4025-4029, 1988.
	GO	Funakoshi et al., "Human Placental Anticoagulant Protein: Isolation and Characterization," <i>Biochemistry</i> 26: 5572-5578, 1987.
	GP	Funakoshi et al., "Primary Structure of Human Placental Anticoagulant Protein," <i>Biochem.</i> 26: 8087-8092, 1987.

EXAMINER	DATE CONSIDERED
----------	-----------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	HA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	HB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	HC	Galli et al., "A Radiopharmaceutical for the Study of the Liver: ^{99m} Tc-DTPA-Asialo-Orosomucoid, I: Radiochemical and Animal Distribution Studies," <i>J. Nucl. Med. Allied Sci.</i> 32(2): 110-116, 1988.
	HD	Grundman et al., "Characterization of cDNA Encoding Human Placental Anticoagulant Protein (PP4): Homology with the Lipocortin Family," <i>Proc. Natl. Acad. Sci.</i> 85: 3078-3712, 1988.
	HE	Habeeb, "Determination of Free Amino Groups in Proteins by Trinitrobenzenesulfonic Acid," <i>Analytical Biochemistry</i> 14: 328-336, 1966.
	HF	Haensler et al., "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound to Target DNA to Hepatocytes," <i>Bioconjugate Chem.</i> 4: 85-93, 1993.
	HG	Harris et al., "Design and Synthesis of Radiolabeled GP IIb/IIIa Receptor Antagonist as Potential Thrombus Imaging Agents," <i>The Journal Of Nuclear Medicine</i> 35(5):9. 245P, Abstract No. 1005B, 1994.
	HH	Hashida et al., "Hepatic targeting of drugs and proteins by chemical modification," <i>Journal of Controlled Release</i> 36(1): 99-107, 1995.
	HI	Iwasaki et al., "Structure and Expression of cDNA for an Inhibitor of Blood Coagulation Isolated from Human Placenta: A New Lipocortin-like Protein," <i>J. Biochem.</i> 102: 1261-1273, 1987.
	HJ	Jansen et al., "Hepatic Endocytosis of Various Types of Mannose-terminated Albumins," <i>J. of Biological Chem.</i> 266(5): 3343-3348, 1991.
	HK	Kaplan et al., "Cloning and Expression of cDNA for Human Endonexin II, a Ca ²⁺ and Phospholipid Binding Protein," <i>J. Biolog. Chem.</i> 263(17): 8037-8043, 1988.
	HL	Kasina et al., "Development and Biological Evaluation of a Kit for Preformed Chelate Technetium-99m Radiolabeling of an Antibody Fab Fragment Using a Diamide Dimercaptide Chelating Agent," <i>The Journal of Nuclear Medicine</i> 32(7): 1445-1451, 1991.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 690022.525C9	APPLICATION NO. 10/820,653
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Sudhakar Kasina et al.	
		FILING DATE April 8, 2004	GROUP ART UNIT 1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
IA						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
IB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IC	Kasina et al., "Preformed Chelate TC-99m Radiolabeling Of r-Annexin V For Arterial Thrombus Imaging," <i>Journal of Nuclear Medicine</i> 37(Suppl. 5): 29P., 1996.
ID	Knight et al., "Thrombus Imaging with Technetium-99m Synthetic Peptides Based upon the Binding Domain of a Monoclonal Antibody to Activated Platelets," <i>The Journal of Nuclear Medicine</i> 35(2): 282-288, 1994.
IE	Koblick et al., "Current Status of Immunoscintigraphy in the Detection of Thrombosis and Thromboembolism," <i>Seminars in Nuclear Medicine</i> XIX(3): 221-237, 1989.
IF	Krantz et al., "Attachment of Thioglycosides to Proteins: Enhancement of Liver Membrane Binding," <i>Biochem.</i> 15(18): 3963-3968, 1976.
IG	Law et al., "A Microplate Method for the Determination of Amino Groups in Monoclonal Antibodies," <i>Hybridoma</i> 9(4): 397-399, 1990.
IH	Lee et al., "2-Imino-2-methoxyethyl 1-thioglycosides: New Reagents for Attaching Sugars to Proteins," <i>Biochem.</i> 15(18): 3956-3962, 1976.
II	Lee et al., "New Synthetic Cluster Ligands for Galactose/N-Acetylgalactosamine-specific Lectin of Mammalian Liver," <i>Biochem.</i> 15(18): 4255-4261, 1984.
IJ	Lee et al., "Preparation of Cluster Glycosides of N-acetylgalactosamine That Have Subnanomolar Binding Constants Towards the Mammalian Hepatic Gal/GalNAc-specific Receptor," <i>Glycoconjugate J.</i> 4: 317-328, 1987.
IK	Lister-James et al., "Tc-99m P748. A Receptor-Binding Techtide™ for Imaging Activated Platelets," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 16P, Abstract No. 57, 1995.
IL	Lister-James et al., "Tc-99m P829: A Somatostatin Receptor-Binding Techtide™ for Imaging Somatostatin Receptors In Vivo," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 91P, Abstract No. 370, 1995.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 690022.525C9		APPLICATION NO. 10/820,653	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Sudhakar Kasina et al.			
				FILING DATE April 8, 2004		GROUP ART UNIT 1616	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	JA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	JB						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	JC			Liu et al., "Labeling IIb/IIIa Hynictides with Tc-99m Using Aminocarboxylates as Co-Ligands," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 16P, Abstract No. 56, 1995.			
	JD			Loscalzo et al., "Imaging Arterial Thrombi: An Elusive Goal," <i>Circulation</i> 85(1): 382-385, 1992.			
	JE			Lu et al., "I-125 -Labeled Synthetic Peptide Fragment: Biodistribution and Localization in Experimental Atherosclerosis," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 25P, Abstract No. 92, 1995.			
	JF			Mattes, "Biodistribution of Antibodies After Intraperitoneal of Intravenous Injection and Effect of Carbohydrate Modifications," <i>J. Natl. Canc. Instit.</i> 79(4):855-863, 1987.			
	JG			Mauk et al., "Targeting of Lipid Vesicles: Specificity of Carbohydrate Receptor Analogues for Leukocytes in Mice," <i>Proc. Natl. Acad. Sci. USA</i> 77(8): 4430-4434, 1980.			
	JH			Maurer-Fogy et al., "Cloning and Expression of cDNA for Human Vascular Anticoagulant, a Ca ²⁺ -dependent Phospholipid-binding Protein," <i>Eur. J. Biochem.</i> 174: 585-592, 1988.			
	JI			McKee et al., "Preparation of Asialoorosomucoid-polylysine Conjugates," <i>Bioconjugate Chem.</i> 5: 306-311, 1994.			
	JJ			Merwin et al., "Targeted Delivery of DNA Using YEE(GaINAcAH) ₃ , a Synthetic Glycopeptide Ligand for the Asialoglycoprotein Receptor," <i>Bioconjugate Chem.</i> 5: 612-620, 1994.			
	JK			Morell et al., "The Role of Sialic Acid in Determining the Survival of Glycoproteins in the Circulation," <i>J. Biol. Chem.</i> 246(5): 1461-1467, 1971.			
	JL			Moyer et al., "Development of a White Blood Cell Specific Technetium-99m Imaging Agent from PF-4 for Detecting Infection," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 161P, Abstract No. 730, 1995.			
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

690022.525C9

APPLICATION NO.

10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	KA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	KB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	KC	Muto et al., "Detecting Deep Venous Thrombosis with Technetium-99m-Labeled Synthetic Peptide P280," <i>The Journal of Nuclear Medicine</i> 36(8): 1384-1391, 1995.
	KD	Pepinsky et al., "Five Distinct Calcium and Phospholipid Binding Proteins Share Homology with Lipocortin I," <i>J. Biolog. Chem.</i> 263(22): 10799-10811, 1988.
	KE	Pham et al., "The Detection of Venous Thrombosis (VT) with Tc-99m P280 Labeled Synthetic Peptide," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 89P, Abstract No. 361, 1995.
	KF	Ponpipom et al., "Cell Surface Carbohydrates for Targeting Studies," <i>Can. J. Chem.</i> 58: p. 214, 1980.
	KG	Prescott et al., "Larch arabinogalactan for hepatic drug delivery: isolation and characterization of a 9 kDa arabinogalactan fragment," <i>Carbohydrate Research</i> 278(1): 113-128, 1995.
	KH	Press Release from American Biogenetic Sciences, "American Biogenetic Sciences, Inc. Announces Its Completion of Phase I and Initiation of a Phase I/II Clinical Trial of MH1 for Imaging Blood Clots," 1995.
	KI	Ravant et al., "Use of Annexin-V to Demonstrate the Role of Phosphatidylserine Exposure in the Maintenance of Haemostatic Balance by Endothelial Cells," <i>Biochem. J.</i> 282, 7-13, 1992.
	KJ	Römisch et al., "Annexin Proteins PP4 and PP4-X: Comparative Characterization of Biological Activities of Placental and Recombinant Proteins," <i>Biochem. J.</i> 272:223-229, 1990.
	KK	Römisch et al., "Annexins: Calcium-Binding Proteins of Multi-Functional Importance?," <i>Medical Microbiology and Immunology</i> 180: 109-126, 1991.
	KL	Römisch et al., "Anticoagulant Properties of Placenta Protein 4 (Annexin V)," <i>Thrombosis Research</i> 60(5): 355-366, 1990.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 690022.525C9		APPLICATION NO. 10/820,653	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Sudhakar Kasina et al.			
				FILING DATE April 8, 2004		GROUP ART UNIT 1616	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	LA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	LB						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	LC			Römisch et al., "In-Vivo Antithrombotic Potency of Placenta Protein 4 (Annexin V)," <i>Thrombosis Research</i> 61(2): 93-104, 1991.			
	LD			Sharma et al., "Inactivation and Clearance of an Anti-CEA Carboxypeptidase G2 Conjugate in Blood After Localisation in a Xenograft Model," <i>Br. J. Cancer</i> 61: 659-662, 1990.			
	LE			Sharon et al., "Carbohydrates in Cell Recognition," <i>Scientific American</i> 268(1): 82-89, 1993.			
	LF			Stratton et al., " ¹¹¹ In Platelet Imaging of Left Ventricular Thrombi," <i>Circulation</i> 81(4): 1182-1189, 1990.			
	LG			Stratton et al., "Indium 111-Labeled Platelet Imaging in Man," <i>New Concepts Cardiac Imag</i> 3: 139-196, 1987.			
	LH			Stratton et al., "Left Ventricular Thrombi: In Vivo Detection by Indium-111 Platelet Imaging and Two Dimensional Echocardiography," <i>The American Journal of Cardiology</i> 47: 874-881, 1981.			
	LI			Stratton et al., "Platelet Deposition of Carotid Endarterectomy Sites in Humans," <i>Stroke</i> 18(4): 722-727, 1987.			
	LJ			Stratton et al., "Reduction of Indium-111 Platelet Deposition on Dacron Vascular Grafts in Humans by Aspirin Plus Dipyridamole," <i>Circulation</i> 73(2):325-330, 1986.			
	LK			Stratton et al., "Selective Uptake of Radiolabeled Annexin V on Acute Porcine Left Atrial Thrombi," <i>Circulation</i> 92:3113-3121, 1995.			
	LL			Stratton et al., "The Effects of Antithrombotic Drugs in Patients with Left Ventricular Thrombi: Assessment with Indium-111 Platelet Imaging and Two-Dimensional Echocardiography," <i>Circulation</i> 69(3): 561-568, 1984.			
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

690022.525C9

APPLICATION NO.

10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	MA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	MB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	MC	Stratton, "Common Causes of Cardia Emboli-Left Ventricular Thrombi and Atrial Fibrillation," <i>The Western Journal of Medicine</i> 151(2): 172-179, 1989.
	MD	Tait et al., "Chromosomal Localization of the Human Gene for Annexin V (Placental Anticoagulant Protein I) to 4q26→q28," <i>Cytogenet. Cell Genet.</i> 57: 187-192, 1991.
	ME	Tait et al., "Evaluation of Annexin V as a Platelet-Directed Thrombus Targeting Agent," <i>Thrombosis Research</i> 75(5): 491-501, 1994.
	MF	Tait et al., "Phospholipid Binding of Annexin V: Effects of Calcium and Membrane Phosphatidylserine Content," <i>Archives of Biochemsitry and Biophysics</i> 298(1): 187-191, 1992.
	MG	Tait et al., "Phospholipid Binding Properties of Human Placental Anticoagulant Protein-I, a Member of the Lipocortin Family," <i>J. Biolog. Chem.</i> 264(14): 7944-7949, 1989.
	MH	Tait et al., "Placental Anticoagulant Proteins: Isolation and Comparative Characterization of Four Members of the Lipocortin Family," <i>Biochem.</i> 27(17): 6268-6276, 1988.
	MI	Tait et al., "Prourokinase-Annexin V Chimeras: Construction, Expression and Characterization of Recombinant Proteins," <i>The Journal of Biological Chemistry</i> 270(37):21594-21599, 1995.
	MJ	Tait et al., "Site-Specific Mutagenesis of Annexin V: Role of Residues from Arg-200 to Lys-207 in Phospholipid Binding," <i>Archives of Biochemistry and Biophysics</i> 288(1): 141-144, 1991.
	MK	Taliaferro et al., "New Multidentate Ligands. 22. N,N'-Dipyridoxylethylenediamine-N,N'-diacetic Acid: A New Chelating Ligand for Trivalent Metal Ions," <i>Inorganic Chemistry</i> 23(8): 1188-1192, 1984.
	ML	Tanaka et al., "Preparation and Characterization of a Disulfide-linked Bioconjugate of Annexin V with the B-Chain of Urokinase: An Improved Fibrinolytic Agent Targeted to Phospholipid-containing Thrombi," <i>Biochem.</i> 35(3): 922-929, 1996.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C9APPLICATION NO.
10/820,653**INFORMATION DISCLOSURE STATEMENT**
(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	NA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	NB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	NC	Thiagarajan et al., "Binding of Annexin V/Placental Anticoagulant Protein I to Platelets: Evidence for Phosphatidylserine Exposure in the Procoagulant Response of Activated Platelets," <i>The Journal of Biological Chemistry</i> 265(29): 17420-17423, 1990.
	ND	Tolleshaug, "Binding and Internalization of Asialo-glycoproteins by Isolated Rat Hepatocytes," <i>Int. J. Biochem.</i> 13: 45-51, 1981.
	NE	Vallabhajosula et al., "Tc-99m-P748: Activated Platelet Specific Techtide™ for Imaging Thrombus: Comparison with In-111-Platelets in a Canine of DVT," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 103P, Abstract No. 417, 1995.
	NF	Vallabhajosula et al., "Tc-99m-P829:Somatostatin Receptor (SSTR) Binding Techtide: Comparison of Tumor Uptake with In-111-Octreotide in Rats with Pancreatic Tumor," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 192P, Abstract No. 866, 1995.
	NG	Van Der Sluijs et al., "Drug Targeting to the Liver with Lactosylated Albumins: Does the Glycoprotein Target the Drug or is the Drug Targeting the Glycoprotein?," <i>Hepatology</i> 6(4): 723-728, 1986.
	NH	Van Heerde et al., "Binding of Recombinant Annexin V to Endothelial Cells: Effect of Annexin V Binding on Endothelial-Cell-Mediated Thrombin Formation," <i>Biochem. J.</i> 302: 305-312, 1994.
	NI	Van Ryn-McKenna et al., "The Effects of Heparin and Annexin V on Fibrin Accretion after Injury in the Jugular Veins of Rabbits," <i>Thrombosis and Haemostasis</i> 69(3): 227-230, 1993.
	NJ	Vera et al., "Tc-99m Galactosyl-Neoglycoalbumin: In Vitro Characterization of Receptor-Mediated Binding," <i>J. Nucl. Med.</i> 25(7): 779-787, 1984.
	NK	Verstraete, "The Diagnosis and Treatment of Deep-vein Thrombosis," <i>The New England Journal of Medicine</i> 329(19): 1418-1419, 1993.
	NL	Wall et al., "The Galactose-specific Recognition System of Mammalian Liver: the Route of Ligand Internalization in Rat Hepatocytes," <i>Cell</i> 21: 79-93, 1980.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

690022.525C9

APPLICATION NO.

10/820,653

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Sudhakar Kasina et al.

FILING DATE

April 8, 2004

GROUP ART UNIT

1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	OA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	OB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	OC		Weber et al., "Enhanced Kidney Clearance with an Ester-linked ^{99m} Tc-Radiolabeled Antibody Fab'-chelator Conjugate," <i>Bioconjugate Chem. 1</i> : 413-437, 1990.
	OD		Weigel, "Chapter 5, Endocytosis and Function of the Hepatic Asialoglycoprotein Receptor," <i>Subcellular Biochemistry Volume 19, Endocytic Components: Identification and Characterization</i> , Bergeron et al. (eds), Plenum Press, New York, pp. 125-161, 1993.
	OE		Weinmann et al., "Deep-vein Thrombosis," <i>The New England Journal of Medicine</i> 331(24): 1630-1641, 1994.
	OF		Wells et al., "Accuracy of Clinical Assessment of Deep-vein Thrombosis," <i>The Lancet</i> 345: 1326-1330, 1995.
	OG		Worsley et al., "Role of Radionuclide Imaging in Patients with Suspected Pulmonary Embolism," <i>Nuclear Medicine</i> 31(4): 849-858, 1993.
	OH		
	OI		
	OJ		
	OK		
	OL		

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).